

XTAL

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for the
radio
amateur



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TORONTO, ONTARIO



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—have 450-w total CW
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[C R Y S T A L]

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HILITES

VE3ANY, XTAL'S VHF editor, describes thrilling action at Dominion Day Regatta. Photo by VE2VWW. Story on page 7.

VE/W Contest results on page 5.

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... We Worry ...

JOHNNY Huntoon's editorial in July QST made us do some considerable thinking.

To introduce the gist of our thoughts, we quote one passage: "... there's one thing that worries us just a little. It's that we hear a lot of you are heading straight toward the 'phone bands for your first contacts, solely because you fear the boys on CW are too fast for you and can't be bothered with the slower speed of the usual newcomer".

True, there are some lads who will rattle back to a neophyte at 30 w.p.m.—just to scare him off the fence. It isn't a general practice though. Most old timers are quick to recall their own beginnings and become quite mellow when the self-conscious fist of a nipper appears for judgment. Personally, we aren't too concerned about this phase. Maybe it's because we have a pretty high opinion of most of those individuals categorized as "CW Men".

We distinctly remember a fellow telling us one time that it was a very difficult thing for him to settle down to the business of learning the code and that he was going to cram to get the 15 per "down pat" for the examination—because he wanted to get on 'phone soon as he could—he'd never use the dot and dash system once he got through the R.I.'s office! Outside of that one shortcoming he had all the qualifications of a real ham. We asked him why he had such a complete disregard for the basic form of communication. It was with great alarm that we listened to: "... it is so much more 'social' to talk to another fellow by use of your own voice, and to hear 'other fellow's voice coming back—so much simpler to get across what each wanted to say—further, and finally that CW lacked personality." To our minds it brought thoughts of the fellow who boasted of his ability as an aircraft pilot. We were quite impressed until we asked him if it were true that flying's most expert knowledge was required during take-offs and landing. He said that there was always someone with him "to do that part." Strikes us that there is an astounding simile here. And it isn't necessary to recount the number of cases where emergencies have proved the point. A good "Phone Man" is an asset to amateur radio—especially in emergencies—a good 'phone man, you can bet, has had his "ground training" in CW.

So far as personality is concerned, one of our good pals once told us of an interesting

experience. He had been using his rig on 75 for a considerable portion of the evening. At a later hour, he had a sked on CW. He QSYed, cleared the hook, and settled down for a rag chew which took up the better part of an hour. Much later as he drew covers over shoulder in the peace of a Connecticut night, he was aroused—by realization of a thought—that even though he had spoken voice-to-voice on 75 for the best part of that evening, his CW QSO, dots to dots, dashes to dashes, hadn't set itself apart as an entirely different means of communication at all. He realized that he was aware of the warmth of a personality, and a voice, at the other end—by CW. Such an example may require considerable thinking on the part of our friend who would cram to get by the R.I. at 15 per and on into the 'phone band. Very comprehensible to good 'phone men—good CW men, that is.

Alberta Hamfest

The most successful Hamfest ever staged in Alberta drew to a conclusion last evening (Sunday, July 27th) at Lakeview Pavilion on Cooking Lake, 24 miles South-east of Edmonton. Yeah! from every angle it was a success.

Staged as the Alberta Hamfest, and sponsored by The Northern Alberta Radio Club of Edmonton, the event ran true to form, well patronized from all over the Province, and with visitors from Teslin, B. C. and Prince George B. C. as well as Vancouver, and even one guest from Montreal.

A unique feature was the inclusion of a QSL Bureau, set up and operated by W. R. (Bill) Savage, VE6EO, QSL Manager for VE6 and D.R. for C.A.R.O.A. This proved more than a little popular with the DX hounds! Roy Usher, VE6EA of Edmonton had the surprise of the day when 6EO handed out a DX card to him dated 1937! (Only 10 years late!) Bill did a brisk business selling C.A.R.O.A. lapel button and XTAL subscriptions also.

The N.A.R.C. took particular pains to entertain the ladies, and according to all reports they all thought the whole affair was operated extremely well in that respect. While the tech-

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Results: VE/W Contest

Ve3GT High International Scorer
W2IOP Repeats Win For
M.A.R.C. Trophy

LEADERS

Ve3GT	40,900	Ve3SF	19,656
Ve7HP	37,080	Ve3AGX	18,925
Ve7HC	26,316	Ve3IR	17,226
Ve2FG	25,785	Ve6EO	16,896
Ve3QD	20,874	Ve3JT	16,520

U.S.A.

W2IOP	24,864	W0CMH	17,856
W3BES	22,624	W9BRD	17,280
W8PQK	20,064	W2KHT	16,912
W2SSC	19,776	W2EYH	16,704
W2WC	19,776	W0YCR	15,264
W1BFT	19,488	W9NII	15,264

THE first post-war Ve/W Contest, renewal of one of A.R.R.L.'s most popular operating features furnished thrills for over a thousand operators. Three hundred and seventy-four logs, some with interesting notes and sidelights, was indicative of the good-will and popularity fostered by international competition.

Leading the thundering pack with 40,900 points for a new high was Sam Trainer, Ve3GT, whose 208 contacts in 50 sections on 28 watts is remarkable. The old Contest King again

gave us a sterling example of what can be attained with low power in the hands of a fine operator, and a VFO! Larry LeKashman behind the controls of W2IOP retained supremacy in United States and the Montreal Amateur Radio Club Trophy with 24,864. His 138 contacts in eight sections was closely followed by W3BES with 22,624.

Ve7HP whose total of 309 contacts in 60 sections can be consoled by the fact that he and Ve7HC with 266 in 51 led the field from the standpoint of number of QSO's and sections worked. Both were beaten by Sam's multiplier.

SECTIONAL LEADERS

E. Pa.	Mont.	Minn.	W. Va.
W3BES — 22,624	W7EWR — 5,720	W0YCR — 15,264	W8JJA — 5,248
Md.-Del.-D.C.	Wash.	Ark.	Colo.
W3LVJ — 10,080	W7KEM — 8,704	W5LSH — 1,216	W0CDP — 3,648
S. N.J.	Nev.	La.	Utah-Wyom.
W2HZ — 4,032	W7ONG — 11,524	W5KC — 1,536	W7BED — 160
W. N.Y.	S.C. Valley	Miss.	E. Fla.
W2SSC — 19,776	W6MLY — 6,144	W5MMT — 128	W4BRB — 10,360
W2WC	East Bay	Tenn.	L.A.
W. Pa.	W6LMZ — 640	W4IQY — 9,408	W6EYH — 16,704
W3GJY — 5,760	Frisco	Ky.	Ariz.
Ill.	W6MHF — 5,184	W40MW — 1,088	W7RFE — 3,672
W9BRD — 17,280	S.J. Valley	Mich.	San Diego
Ind.	W6SRU — 3,192	W8SAY — 5,952	W6M1 — 8,736
W9NZZ — 15,036	N.C.	Ohio	S. Tex.
Wis.	W4EXB — 4,800	W8PQK — 20,064	W5VPC — 6,336
W9HVM — 9,600	S.C.	N.Y.C. & L.I.	Okla.
N.D.	W4FNS — 8,640	W2IOP — 24,864	W5AQE — 4,704
W0LHS — 800	Va.	N. N.J.	N. Mex.
S.D.	W4JUG — 4,080	W2EQS — 15,568	W5HOY — 32
W0WUU — 1,008			

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Switch to Safety

It is with heavy heart that we record the accidental death of Cliff Hitchon, VE4AE, of Winnipeg. Below is the story received from the Winnipeg Amateur Radio Club—Switch to Safety!

Owing to the fact that Cliff was alone at his transmitter at the time of the accident, a positive statement of exactly what happened cannot be given. However, we will outline what we presume did happen. First of all a brief outline of the layout. Picture yourself standing and facing the centre of the operating table. Immediately below the table were all relevant power supplies. On the table, and slightly to your right, was the receiver. Above the receiver, and at approximately chest height, was a shelf upon which rested the transmitter which was built on a chromium-plated chassis, and had a pair of 83's in the final with approximately 2500 volts on the plates. The rig was plate, modulated. On the day in question, Sunday, June 22, 1947, it was raining, and it is thought that Cliff was in QSO with W9BPQ

of Maywood, Illinois, and apparently during the QSO, or immediately following, he attempted to make some adjustment to the antenna loading or to the final. The microphone was in his right hand and his left hand had pulled the transmitter off the shelf, when discovered, so it would seem that his left hand came in contact with the plate coil which was completely exposed and, therefore, completed the circuit through his body to his right hand.

The general consensus of opinion here is that Cliff was building his rig for fine appearance, and had omitted the safety factor. We feel that with a layout of this type if a person did accidentally get a jolt, they would be more likely to fall forward into the danger rather than away from it.

A great number of reports have come direct to HQ from hams in the various districts. Where such reports concern activities, club doings, and general gossip, much time can be saved by the staff if such were sent to the District Representative for the district concerned. Following is a list of all correspondents who write district reports for CAROA NATIONAL REPORT each month. Remember that he must have them by the 7th of the month to meet his deadline of the 15th. Tnx.

Ve1

R. J. HESLER, VE1KS, Box 160,
Sackville, N.B.

Ve2

F. G. GRIBBEN, VE2XR, 5120 West-
bury Ave., Montreal, P.Q.

Ve3

R. C. HUNT, VE3WX, 103 Garfield
Ave., London, Ont.

Ve4

C. E. JOHNSON, VE4XO, 30 Atholl
Apts., Winnipeg, Man.

Ve5

BILL GORDON, VE5MW,
Oxbow, Sask.

Ve6

W. R. SAVAGE, VE6EO, 329 15th St.
N., Lethbridge, Alta.

Ve7

ERNIE SAVAGE, VE7FB, 4553 12th
Ave. West, Vancouver, B.C.

Ve8

JACK SPALL, VE8AS, Box 268,
Whitehorse, Y.T.

VHF IN CANADA

Conducted by GORDON COLEMAN, VE3ANY

EMERGENCY operation takes the highlight this month. What does poor John Q. Public do when he runs out of gas on a lonely stretch of highway? Walk six miles to the nearest gas station? Not VE3BIJ. Having become "becalmed" after a visit to the country estate of your scribe on June 21st, Al sent out a QRR with his portable car rig and raised VE3ATB. Bert was just about to retire, but rallied to the colours and rescued Al and company. Good old ham radio!

The Hamilton Emergency Corps Net provided a singular service to the Eaton Model Aircraft Meet at Mount Hope Airport last month, when they helped scoring and starting teams by providing radio service to all corners of the airport. Numerous messages were handled and equipment operated continuously without a hitch. Participating with their portable battery and mg. operated equipment were VE3KM, and BFF, BQL, and AEZ. Their regular meeting nights are Tuesday.

The CAROA Emergency net, (VHF section) was called on for a nice bit of emergency portable work on July 1st. The Dominion Day Regatta, an annual event sponsored by The Centre Island Association and subscribed to by various Canadian and American Rowing and Paddling Clubs was badly in need of a system of co-ordinated message handling between start and finish lines over the one mile regatta course. Also, events taking place on the Lakeshore drive at Centre Island were to be co-ordinated with the running of the various races. A team consisting of VE3ATB, VE3AIB, and VE3ANY provided portable transmitters and receivers and operated continuously from 9:30 a.m. until 6:30 p.m.

VE3AIB's rig was his mobile car set, consisting of a 9002, 6C5, 6G6 receiver and 9002, 6AG5, 6AQ5 mod. with 6AQ5 into PP 6AQ5 for transmitter. Les worked from a storage battery and was located in a beauty parlor on Manitou Road, about three-quarter of a mile from the finish barge and at the control spot for Lakeshore events. VE3ATB also used his mobile car rig and was located aboard a launch which roved between the start and finish lines at all times. The storage battery operated equipment consisted of 957, 1D5G1 receiver and 6AQ5, into PP 6AQ5 modulated with 6C5 and 6F6 for transmitting. Bert's transmissions served to instantaneously notify those on the official's barge of the start of each race, after which a running commentary was provided. VE3ATB's running descriptions were rebroadcast via public address system to the 40,000 spectators lining the course.

VE3ANY acted as control station from a fixed position on the official's barge at the finish line and numerous important messages were handled. VE3ANY's rig was 955, 6J5, 6F6 receiver and 6C4, 6AQ5 modulated by 6J5 and 6F6 for a transmitter. All three stations used a common fixed frequency of 51.0 mcs. Antennas were one-quarter whips and speaker outputs were provided in each case. Equipment performed admirably and no troubles were encountered during the entire day of operation.

The type of service provided by the Hamilton and Toronto groups is indicative of what could be accomplished in time of emergency. Similar groups have given inestimable service in time of need during flood, fire and tornado. It is by this type of work that the amateur can demonstrate to the public his usefulness to a community in time of need. We would be very glad to publicise any VHF work of a similar nature.

We have heard that VE3ADO, Toronto, who uses an SCR522 unit into a 6 element beam, has been working into Detroit and Erie, Pa., lately on 144 mc. While this isn't a record, it presents quite an accomplishment. Harry says he's out after the dx record for this band and we will have more dope on this next month.

The 50-54 mc band has continued to produce some very fine E layer openings and 6 meter enthusiasts have had a continued "field day." Dates on which 6 meters has been open are as follows:

June 17	fair opening—W5's and WO's 2100-2100-2200 hrs.
June 19	weak opening—hvy, qsl—WO, WI, W5, 9.00-10.00 pm.
June 20	good opening—1800-2100 hrs.—WO's, WI's.
June 23	fair opening—1400-1530 hrs. and 2100-2200—W3, 9, O's.
June 25	good opening—2200-2400—W9's, WO's, VE1.
June 27	good opening—2100-2200—W5, W6, W7, WO.
June 29	temp inversion opening—1200 hrs.—VE3—W2.
June 30	weak opening—evening—W5's.
July 3	weak opening—evening—W4, W5.
July 5	weak opening—1600-1700—W5's.
July 6	fair opening—1800-1900—W4's.

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C A R O O A NATIONAL REPORT

VE1

Ronald J. Hesler, VE1KS, Sackville, N.B.—EW is active on twenty CW with a total of 12 stations worked for the month of June and runs 200 watts to an 84L. WG is interested in obtaining an AR7 receiver and an army 19 set. AL took the big leap and acquired himself an xyl. DR, NX and 10 are active on 10. VT, IU and JA are new voices heard on 75 tone. QS and ND have departed from VE1 land for Montreal. QJ migrates from 6 to 75 once in a while. KS recently returned from trip to VE1 land and points between—while at Banff ran into, of all people, 1HI; of course a VE1 hamfest convened then and there. The Annapolis Valley Radio Club's new officers are: MA—President, EA—Vice-President and IM—Secretary. The club took in the Field Day in a big way. KJ and IM were the official installers and got "soaked" (take that any way you wish) in the process. The equipment used consisted of a 19 set as the exciter and an S20R and BC348 as the transistors. KJ and EA were the chief operators.

We are all pleased to see CW back with us again after having received the "other half of that ticket". QF and SY, by the time you will read this, will have established new QTH's in VE1 land. CF, one of our real old-timers, is back on the air again (75 tone) after an absence of many years—welcome back Captain. LH is sporting another RME receiver. MZ and HT have new Millen BE's. Wonder why KK always wants to keep such a close tab on his xyl when away on business trips—could be because of fellows like QF who are ready and waiting to contact her when Wilbur is away. The Lakeburn Radio Club has folded up for the summer season. To mark the end of the active season, the club held a barbecue which was highlighted by the distribution of prizes to lucky ticket holders. The following were the lucky winners of swell prizes: TN, AQ, EG, QT, BF, PN, PA, QV, FB and RE. A little trouble descended on Lakeburn recently when BF blew a rectifier. AQ suddenly developed parasites. QT blew a plate blocking condenser and thereby put off the air some of Lakeburn's highest power signals for a few days.

EG is trying out 80 meters. MQ was transferred to Montreal. He also departed for a new QTH in VE2 land. VO1L has returned to Lakeburn from Newfoundland and will soon be active on 6 meters. PA is still building, building and building. TN is talking of being transferred to Vancouver soon. LO has been transferred to Winnipeg. IE takes over the A.F.A.R.S. phone net when TN is absent. ES built up a preselector for his S10 receiver and works 80 CW 100 per cent of the time—has plans for other bands when he can get sky books up. In case our Managing Editor is too shy to announce a new arrival in his family I want to announce that AQK became the proud papa of a boy on July 4.

Summer being what it is, this is all the dope that I have been able to gather in this month; however, I know that I can count on the support of all the VE1 gang in keeping this column "up to strength" when the active period commences once again in the fall. Your support in the past year or so has been appreciated more than I can say. Let's make this column even bigger and better come fall. I regret sincerely to have had to report this month the loss of so many VE1's to other districts. Best of luck to all of you fellows at your new QTH's. We have sure enjoyed having you with us in VE1 land. How about dropping the writer a note when you have your new calls so that we can know who to look for. 73—RON.

VE2

Floyd Gribben, VE2XR, Montreal.—VP5EM of ten tone from Jamaica vacationed in VE2 and 3 for first time. LU, WY, JJ and XR played hosts to "Met" while he was in Montreal. Very interesting rag chews resulted and it was found that the VE is certainly better off than the VP on rigs, etc. WK had rig trouble and it was found that the final grid leak had increased from 25K to 200K ohms! He says the SOT has done its duty and wants to rebuild with an 829-B. JJ planning improvements to

his ten meter beam so that he can be ready for the winter season. Twenty feet of pipe and plenty of elbow grease are holding him up. KH keeps an open ear on 6 to see if he can repeat his performances of May and June. EX-2CX, now QRMing under TTD in Vancouver, was down this way on his and took a few holidays to visit some of his old friends. He visited GE and got into helping raise a new skywire. EX-2CX back in Montreal camp from Ottawa where he bothered the RCLs under SJK. Says he has hopes of getting his old call back. BE can still be heard knocking off VKs each morning before 8 on 20 tone. Attributes his success to full wave clothes line fed $\frac{1}{4}$ wave from one end with twin lead. GE hears about BE's antenna via XR and has visiting TTD (ex-2CX) help put one up. First contact on 20 tone sank an S2 plus in Ireland! VL collecting parts for a QST model VFO to be mounted on his new custom made dural chassis. DR is reported to have taken a good tree away from the dogs of Pointe Clair and is grooming it for his new skyhook. Will the dogs find out where their tree went? JE and his Missus glowing quite proudly over receiving a little male harmonica from OM Stork July 16. Congrats are well in order. PU is now switching a new ten meter beam. MG and ZN are new voices heard on ten tone. HE, SG and SJ like short-skipping to Montreal on 10 tones to talk with the big city boys. XR vacationed in VE3 and attended meeting of West Side Radio Club—his brain child of 1937. GL is pinch-hitting for SU as acting SCM for the A.R.R.L. Quebec Division, so send your QST reports to him OM. The boys of the Montreal Amateur Radio Club with yrs. xyls and kids, whooped it up at Lachine Park in the form of a picnic to mark the final get-together before closing the club for the summer. Plenty of fun, eats and prizes were on hand and those that did all the work are to be highly congratulated on the fun show. 2XX latched on to one of the prizes at the M.A.R.C. picnic to the tune of one Army 19 set. It is reported that a few of the old timers on 20 tones, and members of the local fraternity, are taking up more than their share of the hand. If this means you, how about cleaning up that carrier OM. Without any doubt whatsoever, the VE2 district is the worst in the country when it comes to not reporting on their activities. If you doubt it, take a look at past columns of XTAL and see how little was reported. Better still, take a good look at QST! There's not a VE2 to be seen! While on the subject of reports, it would be timely to mention that of the reports that have come in, invariably they come from in and around Montreal. What's happened to you fellows elsewhere? It doesn't matter if you're in a one, two or three horse town, we'll still like to know what's going on in your ham world. A postcard to HQ or your District Representative indicating your activities is all that is required each month. Or, if you want to use your immediate facilities, relay the dope with your rig. Anyway, OM's, let's get out of the rut. Why isolate? As we have as yet no full time and permanent D.R. for Quebec, I have compiled this report via the grape-vine, the telephone and the ham bands. If, when this appears in print, no one has been appointed for D.R., please send your reports to me and I will do my best to pass them along to HQ for next month's showing. My QTH is Floyd G. Gribben, VE2XR, 5120 Westbury Ave., Montreal, Quebec. 73.

VE5

Bill Gordon, VE5MW, Oxbow, Sask.—RD at Spy Hill has been communicating with nature too much. He got the chicken pox. Reg just got over this and feeling disengaged, left for Lake of the Woods for two weeks' vacation. Quite a few of the boys in south-eastern Saskatchewan paid a visit to ERJ on July 13 and from what we hear on the airwaves an enjoyable time was had by all. We would give a list of all the boys who attended this hamfest, but we aren't just certain who was there and we're not going to stick our neck out. 5WG is building a slug-tuned all band transmitter with 4-6LF's into an SOT final. IIC has also been in a roving mood

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DX'ers of THE MONTH



Ve7ZM
71
Countries

Call	July	PW Total
Ve7ZM	71	142
7HC	59	84
4RO	51	131
7GI	47	93
2LQ	41	—
3AGC	34	75
7EH	32	58
1EP	27	128
1OK	26	93
8AS	23	52
1PQ	16	78
7AHP	16	23
1EW	11	—
7AC	10	29
3QB	10	51



Ve7EH lays claim to being first Ve to work the Ronne Antarctic Expedition . . . Ve3QB's ten countries worked with single 807 . . . Ve7AC is new member of DXers . . . Ve4RO shot a 49 in June but was too late to qualify . . . likewise Ve5QZ with 12 . . . Ve7ZM worked AC4YN seven times in the past year! . . . his pre-war and post-war total now stands at 164 countries! We remind you again that July XTAL carried NEW RULES for DXers . . . read 'em . . . CUL.



VHF—from page 7

July 7, 10, 11 weak openings—evening—W4, W5.
 July 12 good opening—2100 hrs. to July 13—0200 hrs.—W5, WO, W9.
 July 13 good opening—10:30 continuously to 200 hrs.—W4, 5, 9, O5s.

Of special note on June 25 was the qso between Ve3DC, Ve3KM and Ve1QZ. This is the first recorded inter-provincial qso and was a fb half-hour three-way, with at least 58 signals on both ends. Also of special interest was the report that on evening of July 12, Ve3BKL heard an XE on 6 meters. 3BKL, Hamilton, uses a converter ahead of HQ129X. More dope on this later!

The Vancouver boys have had a swell month, according to Ve7AEZ, who reports openings on June 1, 7, 15 and 27 for east-west contacts and June 1, 3, 7, 8, 12, 14, 15, 17, 18, 19, 20, 21, 22, 23, 26, 27, 28, 29, 30 for W6 and W7.

Winnipeg district had good openings on June 16th for W9, WO and W4 and W5. On June 27 1900-2100 hrs. with W8, W9, WO and W7's coming through!

There is lots of two meter activity in Toronto, Halifax, Vancouver and Montreal areas with Ve7AEC working 110 miles to W7JKE. Nice going, Noel!!

No records have been broken this month so

the records are still as follows, with the exception of 144-148 mc report
50-54 mc

Ve3AZV (Oshawa)—W6UXM
June 1st, 1947—2250 miles.

144-148 mc

Ve3ADO (Toronto)—had report of work to Detroit, Michigan which is 210 miles. No other details.

235-240 mcs

Ve3BNG (Waterdown)—Ve3AEZ (Hamilton)
May 18, 1947—15 miles.

420-430 mcs

Ve3BFF (Hamilton)—Ve3AND (Hamilton)
Mar. 15, 1947—1 4/5 miles.

News from the Halifax area as reported by the 1QZ give the 6 meter band opening during June as:

June 1—2209 to 2230 hrs. W4's, good opening.
 " 2—0100 to 0245 hrs. W4's, good opening.
 " 13—2300 weak Aurora opening.
 " 15—1200 to 1400 hrs., W2-3-4-8 very good opening.
 " 16—1715 to 1845 hrs., W3-4-8, very good opening.
 " 19—2100 to 2115 hrs., W8-9, fair opening.

Generally openings were good with S8 to S9 plus signals reported both ends. Band goes out with a bang in less than a minute on the coast compared to a gradual half-hour taper

QSY to page 18

Good News for I **MARCONI MAKES** **AVAILABLE**



ACN Dial



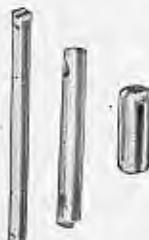
HRS-3 Knob



TX-8 Coupling



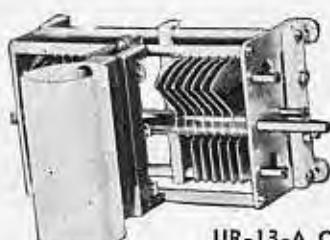
R-154 Choke



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UR-13-A Condenser



R-175 Choke



AR-2 Choke

Get your su

Prepare for the winter months ahead with a good stock of radio parts. NATIONAL NC parts are now available in Canada through Mar-

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HX-100-S Socket



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AM-Dial



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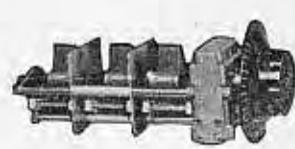
AR-16 Condenser



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NPW-3 Condenser

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coni Ask your radio parts jobber for the parts you will require. Many of the available items are illustrated on these pages.

CONI COMPANY

ed 1903

ING - MONTREAL

INTO - HALIFAX - St. JOHN'S, NFLD.



NC-800-A
Condenser



AR-5 Choke

Transconductance 12,000



WL-473

The exceptionally high transconductance of the Westinghouse Pliotron WL-473 assures high power at low operating plate voltage. This compact, powerful, dependable tube opens new horizons to engineers who are designing dielectric and induction heating equipment and AM and FM transmitters.

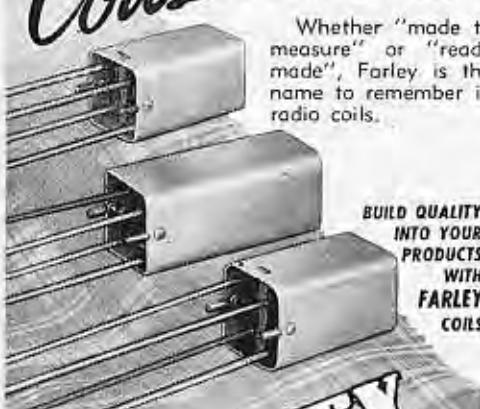
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RADIO LEAGUE

(Ve3BAT)

HAMFEST
at KIRKLAND LAKE
OCTOBER 4th and 5th

Registration Fee \$5.00

(YLs x XYLs \$1.00)

PRIZES, TOURS OF MINES, FISHING,
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Register with Hal Grover Ve3BJE, 149
Pollock Avenue, Kirkland Lake, Ontario.

Hotel accommodations will be arranged
if requested.

This is a ONE-DAY CONVENTION, fellows.
DON'T MISS IT!

WAR ASSETS BULLETIN TO MERCHANTS

The following war surplus items are available

SYLVANIA SIGNAL GENERATOR

Two new Sylvania Signal Generators. Input 115 or 230 V.A.C. (Type 116). 50-60 cycles. Frequency range 380 to 620 Megacycles, continuously variable. Internal square wave modulation continuously variable from 800 to 2,000 C.P.S. 100% modulation depth.

TRANSMITTER/RECEIVER

Transmitter Receiver TR-9D, battery operated. Frequency Range 3 to 6 megacycles. This equipment was originally used for short range communication in fighter aircraft. Could be used for portable transmitter receiver. Ideal for radio amateurs and experimenters.

RADIO ALTITUDE INDICATORS

New Radio Altitude Indicators. Luminous Dial, calibrated in hundreds of feet from 0-400 and from 0-4000. In original cartons.

ANTENNA

Telescopic, tubular steel antenna, 20 ft. long, used with radio set No. 19. Items are not complete but could be used with minor adjustments for house aerials, automobiles, etc.

Address all enquiries to:

Branch Sales Manager,
No. 4 Temporary Bldg.,
Ottawa, Ont.

TELEPHONE RECEIVERS

New Head Type C3, Telephone Receivers. Low-Impedance unit. Black bakelite construction. 2" in diameter.

AERIAL BOXES

New Aerial Box Ebonite construction 2½" square. Part of Aerial Section used as base for aerial proper.

TRANSMITTERS

Type A.T. 7, 24 volts, packed in transit cases made of birch, complete with shock mounting and valves. Height 16", length 14½", width 11½". Used but in good condition.

Address all enquiries to:

War Assets Corporation,
Toombs Bldg.,
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ELECTRIC MOTORS

New 1/20 H.P. Electric Motors, 2250 R.P.M., 100 Volts, D.C.

Address all enquiries to: Branch Sales Manager,
War Assets Corporation,
Masonic Bldg.,
Halifax, N.S.

Watch For Further Announcements

386

WAR ASSETS CORPORATION

VALPEY
CRYSTALS

tip #1

CM-5

Types

VP-3



"OSCILLATOR LOADING"

Generally you provide means for adjusting the amount of coupling between your final and antenna as loading varies with frequency used. If excessive, the result is lost efficiency and reduced radiation. This also applies to crystal oscillators, particularly at the higher frequencies and with third harmonic crystals.

We recommend the use of a ceramic trimmer 75 to 100 MMFD when capacity coupling to the next stage. Adjust this for quick crystal starting and proper grid current to the next stage.

VALPEY CRYSTAL CORP.

HOLLISTON,
MASS.

Canadian Representatives—J. R. LONGSTAFFE LTD., 11 King St. West, Toronto

NATIONAL—from page 8

and has been popping in on quite a few of the 5's and 6's. And, oh, yes, he had shoes on, too! 5GI paid a visit to 5QL and RV.5MW in on 20 meter fone and CW and has been working a 311 dx. If any of you fellas are on 6 meters and are working any stations, please send in the dope on your activities to G. Coleman, Ve3ANY at CAROA HQ. That's it, fellas, that's all there is, there ain't no more, so please send us in a 311 news. 73—Bill.

VE 6

W. R. Savage, Ve7FB, Lethbridge, Alta.—6EF is on 75 meter fone and is using an S15 for a modulator. 6AL is back home and is trying out different microphones. 6WZ is putting out a good signal when he is not busy farming. 6HP is using a pair of 807's and has a nice antenna 70 feet high. 6KZ is having lots of fun trying to centre the beam in his scope. 6EL goes on 20 meter fone to miss the QRM on 75 fone band. 6JI is busy on 80 meter CW. 6LQ is very busy with his job and doesn't get on the air very much. 6OD has been on 20 meters during the summer months like the rest of us. 6WC still has time to get on the air when he is not busy keeping Medicine Hat from burning up. 6DN loses his best now even though the vet flew in via plane. 6MP and 6HZ are heard on 75 now and then but we think they have a failing for 20 meters. 6WW is using a wat asset receiver. 6GY is sending hams to Calgary and Edmonton for exhibition. 6TDSS visits 6AA and 6EO while in Lethbridge and an invitation is extended to any other ham passing through this city. 6EA motored to the coast for holidays. 6AL has 300 watt rig using 313's. 6BW broke down and went CW on 40 for a change. 6WS plans trip down through U.S.A. 6BY is QRL looking after new Jr. Op. 4AC of Winnipeg (Bob Brown) has been transferred to Edmonton to supervise R.C.M.P. radio system. 6LW has trouble with record player amplifier. 6YD of Medicine Hat visits Peace River, scene of earlier crimes. 6LQ purchased new 8 mm. movie projector. 6FO is getting out ok with that big bottle that he pumps 3,000 bolts into. 6RH has moved to Gore Bay, Ont., lots of luck to you both Roy and Gordon. 6EV has sold his SX28a and is experimenting with Gonsel converter. 6OG is planning a day at the Waterfront hamfest. 6IC goes out shooting gophers but I don't believe he shot enough for one meal (or does George really

eat them?). 6KO was busy during exhibition week unloading the midway. 6FS is getting out good on 80 meters with his 807. The shadow showed up at Lethbridge and found Ve6AA over-modulating and splashing over the entire 75 meter band. It is very gratifying to notice the reduction in key clicks evacuating from Ve6BU, you have some yet, a variation in your lag circuit would take them right out. Ve6AX should also take a hint. 6TM, 6GD, 6AO, 6BU gave the air a good churning on the CARA field day, keying clicks carried across the Pacific, hi, about 6 am. 6TM went to sleep with the mike open. After many years' absence 6KS is back on the air, using an S13 final and a SX28a receiver, even being a commercial operator doesn't stop his ham activity. 6IP is going to take a week off and go fishing. 6VN is planning on a super ham shack in his new house. 6EO is still working 20 meter CW—why don't that guy smarten up and get on 75 fone sometime (says the xyl hit). Well 73 again till next month and thanks for the dope received fellows via mail and over the air. CUL.

VE7

Ernie Savage, Ve7FB, Vancouver, B.C.—Powell River comes word that 7LM and 7SD reported to be visiting Vancouver. 7MP new rig pair 810's, let's hear it Hal. 7PO Clarence is on a film-making trip through B.C. Has reported in from 7FB, 7DZ, 7MX. Last word by wire from Chilliwack, 7HO. Saskatoon now 7FE, Marpole. Wish to QSO a navy bloke. 7ADI, 7WM, 7AEM, 7ALR. 4RT now a Ve7MA, and if you need a pole climber see him, he is a lineman, right "Al". 7AL, "King" sure likes strawberry shortcake but not all over his face. 7AC has the rig in a rack now, some day may hear him. 7PH broke the silence by coming on the 5 o'clock net. Sure nice to hear you Doug. 7SO was in QSO when Wally yelled rigs afire, cheerio gang, what's the dope. 7ADP now works a broadcast station. Bill, one way to be heard and not get a ticket from the office. Ve7's invaded the "Cascade Radio Club" hamfest at Everett, a good time was had by all and the Ve7's collected a good share of the prizes. 7ZZ—three crystals, Helen Robinson—hand mike and coll forms, 7NV—two 845, 7XP—two 807, 7NM—"xyl" two 6L6, Mrs. Middleton—805, 7AGZ—socket set, 7FB—Bud wave meter, 7AFB—Call Book, 7LU—(1) 1945 and 1954 with sockets. The highlights are many, one almost a jail! 1928 Chev. passed through the U.S.A. border for Canada, seeing gas low



**Rag-chews with
XTAL readers**

Nr. 13 of a series

NOISY VOLUME CONTROLS?

Ever hear of a life test? Well, a life test is where you try something out to see which will last longer, you or it. All progressive manufacturers keep part of their Engineering Department busy testing, and IRC is no exception. We have always devoted a large share of these studies to volume controls, for there is always room for improvement. When we compare our present product with prewar controls we feel pretty good, but we will never be satisfied. Our major premise is always: "A volume control is used to adjust the audio output of a circuit. It should not induce any noise of its own."

Various labors from time to time have brought forth the metallized resistance element, the five-finger knee-action contactor, and now the spiral connection to the rotor arm. We will try to dissect the first two items for you this month.

The IRC resistance element consists of a bakelite base with a metallized coating bonded to its surface. We use bakelite for the element because it does not absorb moisture like fiber or paper and is more stable. We apply the metallized resistance material on the bakelite by an accurately controlled process. If the control is to have a linear curve, i.e.: a resistance increase directly proportional to rotation, we use only a single resistance material. If the control is tapered, i.e.: a resistance curve of varying slope, we use from 2 to 5 materials of differing specific resistance. The important point is that all of these materials

are applied so that they blend nicely to make a quiet element. Our 24 years' experience in applying resistance coatings is helpful here.

Once you have a good element, it must be securely mounted, both mechanically and electrically. We use only silver plated rivets for this important job.

Now, what is the best way to make contact to this resistance surface? There is one school of thought which contends that there should be no wiping action on the resistance strip, that this will wear the element out. In our opinion this theory is correct with regard to controls having soft carbon elements. Our metallized coating, however, is actually harder than the contactor. After "20 years' service" on life test the element shows less wear than the metal contact fingers. So we use a wiping action here. Dust or grit is wiped out of the way by a moving contact; it is pressed into the element by a plain pressure contact.

The reason for 5 separate contact fingers is easy—each finger is independent of its neighbor, follows its own path, and adjusts itself, just like the knee-action on your car, to any minute inequalities on the element. A single flat or "line" contact, either wiping or pressure type, can't do this; it only hits the high spots.

Take the cover off and examine the next control you buy. Your speech input amplifier deserves a good one.

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DO YOU . . .

identify yourself as a member of CAROA.

WHEN . . .

you are at hamfests, in Leo Hamers, R.S.S., Radio College of Canada, C.E.S., A. G. A., Jim Smalley's, Wholesale, Radio Trade Supply or dozens of others?

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you don't—the easiest way to overcome that problem is to wear a CAROA Emblem—Sterling Silver.

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WESTERN HAM HEADQUARTERS

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VE 4-5-6-7-8

HALLICRAFTERS RECEIVERS

S-25	\$ 85.00
S-40	139.85
SX-42	414.50
R-42 Speaker	38.25
R-45 Speaker	42.30

L. J. HAMERS & CO.

222 Edwards Ave.

The Pas, Manitoba

made "U" turn, passed U.S. customs wide open and of course no stopping. Soon a motorcycle rider pulled along, arms at the alert. They made a three-point landing and talked themselves clear. Passenger list was some six poor hams from Prince Rupert. A new call 7AMV on CW. "Bill" 7LK will take traffic for Dawson and Way Points by way 8AO and 8BC. Bill will be found on 75 fone after 2100 hrs. 7ALC makes nice press lines on his rebroadcast of traffic, nice going "Lenn". 7NS new call "Nellie", Jr. Op. of 7BF. 7HE portable Sprout Lake just waiting for the 110 line and then you can hear him. New call 7ZV Vancouver Amateur Radio Club. The S.O.A.R.C. (South Okanagan Amateur Radio Club) held their first picnic at "Lakawanda Park". W7s there in good numbers. Prizes: 7AJF—coffee maker; 7AAT—523 Marg. W7GX1 tuning unit; tug of war, Hams vs. non-Hams, Hams won; W7FDD the farthest from home, tuning unit; 7JW, 27 years ham radio, \$5.00; W7FPV, old man age, coffee maker; 7AHH, 0-1000 mill meter. (Jim why or what). Thanks to "Radio Dr." for "P.A.", "T.P." for prizes and display. 7LC Alf 7 watts on fone powered by water wheel 75 fone. No need to wonder where the war surplus has gone, "Al" has it. 7RW new call for Victoria on 40 CW. New beam seen on South Granville, what's the dope? 7ABL. Ve6MT of "Kimberley" now 7IV. Stand, please send us all the news. Anyone QSO's a "sucker" please let us know the frequency brand—gin, whiskey or. 73—Gang.

VE8

Jack Spall, Ve8AS, Whitehorse, Y.T.—Things seem very quiet this month with reports from out-of-town stations scarcer than hen's teeth, so how about it gang and let's have a real report for next month. 8AG of Whitehorse R.C.A.F. station has been posted to Clinton, Ontario, and with Alex goes the most consistent 75 fone contact in town, but we wish Alex good luck on his new post. 8BB finally broke down and has been heard on 20 fone. 8AJ returned from holidays but has been very quiet since most of got debussed. 8AK is rebuilding rig. 8AY has the rotary beam bug but so far has met with no success. 8AN is thinking of higher power and more antennas. 8AW has a new VFO. 8AS is rebuilding and contemplates a 4-250A final with signal shifter as driver. 8BM finally got transmitter going at Teslin. 8AL back from holidays and busy editing another swell issue of Ve8 Drift. 8BV having BCI trouble. 8AM has new fone CW rig coming up. 8MW of Fort Good Hope is now Ve6GL of Edmonton. The boys at Aklavik, 8MZ, 8NR, 8NG seem very busy with B.C. station CHAK. That's all for one gang, and don't forget to send in some information on your activities for next issue. 73—Jack.

VE/W—from page 5

Kan.	Maritimes
W0BQJ—14,440	Ve1TR—16,441
Mo.	Ontario
W0CMH—17,856	Ve3GT—40,900
Neb.	Quebec
W0DMY—816	Ve2FG—25,785
Conn.	Alberta
W1RY—11,640	VE6EO—16,896
Me.	British Columbia
W1GKJ—7,080	Ve7HP—37,080
E. Mass.	Yukon
W1OJM—4,800	Ve8NQ—12
W. Mass.	Manitoba
W1KJO—7,980	Ve4DG—4,992
N.H.	Saskatchewan
W1BFT—19,488	Ve5BB—3,344
R.I.	N.J.
W1CSH—10,080	W2KHT—16,912

PICK YOUR SPOTS!



...Your PR Jobber has them in Stock

There's a tough winter ahead. All bands—phone and CW—will be screaming with signals. QRM is due for a new high! If you want to enjoy your radio, get set to move on spot frequencies with PR Precision CRYSTALS. PR has made it easy to select the spots you want—for all bands. This summer hundreds of PR Jobbers were supplied with new VISUAL DISPLAY CASES, stocked with all frequencies available to amateurs . . . and kept up to date! This means you can walk into your favorite jobber's store and get PRs for the

EXACT FREQUENCIES (INTEGRAL KILOCYCLE) YOU WANT WITHIN AMATEUR BANDS AT NO EXTRA COST . . . NO PREMIUM . . . NO "PLUS OR MINUS" THE SPOT YOU WANT. If you buy your radio gear at a distance . . . your jobber can supply PRs at exact frequencies by return mail. Get set . . . go PR and KNOW WHERE YOU ARE! — Petersen Radio Company, Inc., 2800 W. Broadway, Council Bluffs, Iowa. (Telephone 2760)



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10 METERS
PR Type Z-5.

Harmonic oscillator. Ideal for "straight through" mobile operation. High activity. Heavy drive without damage in our special circuit. \$6.75

20 METERS
PR Type Z-3.

Harmonic oscillator. Low drift. High activity. Can be keyed in most circuits. High power output. Just as stable as fundamental oscillators. \$4.75

40 & 80 METERS
PR Type Z-2.

Rugged, low drift fundamental oscillators. High activity and power output with maximum crystal currents. Accurate calibration. \$3.00

Now With
Measurement Engineering



Ivor H. Nixon, Ve3ACL

Mr. Bamford, Manager of Measurement Engineering Ltd., announces the appointment of Mr. Ivor H. Nixon to the sales staff of the company.

Mr. Nixon graduated from the University of Toronto in 1939 and has since devoted his entire attention to the radio industry, starting in with CKOC in Hamilton from 1941 until 1946 he was on the staff of Research Enterprises Ltd. He has since been very active on the editorial staff of "XTAL" and was on the sales staff of Rogers Majestic Ltd.

He is well known by Canadian amateur operators through his popular articles in "XTAL" and his amateur activities.

He will be calling on jobbers and other accounts throughout Southern Ontario and Quebec, handling all the products of the company and its principals.

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Please enroll me as a member of CAROA. Enclosed in \$1.00 which entitles me to membership and a subscription to XTAL.

Name _____

QTH _____

CALL _____

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Prizes for the winners are as follows:

1. Ve3GT—Hammond Mfg. Company Ltd., No. 767 Universal Plate Transformer.
2. Ve7HP—Stromberg-Carlson Co. Ltd., X-7018 Sylvania Modulation Meter.
3. Ve7HC—Canadian Electrical Supply Co., Certificate of Purchase.
4. Ve2FG—Canadian Electrical Supply Co., Certificate of Purchase.

VHF—from page 9

off in Toronto area. Ve1QZ held one and one half-hour QSO with W4WMI on June 2. Yes! Oscar is a member of the rag chewers club. Ve1BC worked Ve1JD for FB 42 mile OSO on 144 NC with portable mobile car rig, which is very nice going!

DX Derby

Call	No DX contacts	No States
Ve7AEZ	98	19
Ve7VY	67	17
Ve3AZV	50	16
Ve3ANY	43	16
Ve7BQ	35	3
Ve3AXM	26	16
Ve7AHZ	25	5
Ve7NM	21	5
Ve3AIB	18	10
Ve3KM	18	10 and VE1
Ve3BFF	17	10
Ve4YW	16	9
Ve3AXT	14	9
Ve3NH	12	7
Ve4GQ	10	(?)
Ve3AVJ	10	7
Ve3AVW	8	(?)
Ve3ATB	7	3
Ve3AND	6	(?)
Ve3AEU	5	2
Ve1TR	5	(?)
Ve4DG	3	(?)
Ve3BQL	3	(?)
Ve3DC	3	2 and VE1
Ve3BEC	2	2

War Assets BULLETIN

To MERCHANTS

The following war surplus items are available

TRANSMITTER RECEIVERS A.T.R. 5, A.T.R. 8

Transmitters

Frequency Range 3.0 to 6.3 MC

Circuit Type—Master Oscillator. Power Amplifier.

Frequency Control—Crystal

Modulation Type—High Level (Plate)

Power Output—22 Watts (Approx.)

Tubes used—One 6L6, two 6L6G, one 807

Primary Power—12 VDC 15 Amps for the A.T.R. 5 or 24 VDC for the A.T.R. 8

Receiver

Circuit Type—Superheterodyne

Frequency coverage—3.0 to 6.3 MC

Tubes used—two 6SK7, one 6SA7, one 6B8, one .38

Primary Power Requirements A.T.R. 5—12 VDC at 9. Amps.

Primary Power Requirements A.T.R. 8—24 VDC at 4½ Amps.

General Information for Transmitter and Receiver

Two channels available (Transmitter and Receiver). Automatic change (Meter Control).

Receiver and Transmitter and integral unit with common power supply. Dimensions: 20" x 11 5/16", 16" x 11 1/2". Weight: 43 lbs. 12 oz. These units may be controlled locally or remotely, remote controls are available.

Address all enquiries to:

**Branch Sales Manager, War Assets Corporation,
11 Jordan Street, Toronto, Ontario**

NEW BULK MAINTENANCE SPARES

For the supply of No. 19 Wireless Set. These spares are sufficient to keep 20 sets of equipment in operation for a 12 month period during wartime conditions. The spares consist of tubes, vibrators, dynameters, wire and hundreds of other items.

BULK INSTALLATION KITS

New Installation Kits Truck and Ground Bulk Maintenance Spares for Wireless Sets No. 19. These spares are sufficient to keep 20 sets of equipment in operation for a 12 month period during wartime conditions. Spares include microphones, telescopic antenna, 2 34 ft. aerials, 2 24 ft. vertical masts, charging switchboards, wire, and hundreds of other items.

A complete list of the maintenance spares in these two kits may be obtained from the Radio and Radar Sales Division, 9600 St. Lawrence Blvd., Montreal.

Address all enquiries to:

**Branch Sales Manager, War Assets Corporation,
9600 St. Lawrence Blvd., Montreal, Que.**

TELEPHONE HEAD RECEIVERS

Telephone Head Receivers 70 ohms impedance, manufactured by Northern Electric Company. New and Used. All in good condition.

Address all enquiries to:

**War Assets Corporation, Branch Sales Office,
Old Belcher Hospital, Calgary, Alta.**

Watch For Further Announcements

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WAR ASSETS CORPORATION

HAM-ADS

FOR SALE—RAF R1155 Rcvr. Converted to complete Communications Rcvr with built-in power supply, 6V6 output tube, RF gain, AVC Sw., Standby Sw., noise-limiter, etc. Most tubes replaced with new standard types, ready to operate, needs only speaker and antenna. Cash price \$55 FOB Innisfail.—Ve6LZ, A. L. Campbell, Box 256, Innisfail, Alta.

SWAP—Number of duplicates in my QST File, also number of gaps from 1935 to 1947. What duplicates have you—what gaps have you?—Ve3AAZ, Ashburn, Ontario.

HALLICRAFTER—S40 like new, only \$50.00—Russ Gladstone, 854 Ossington Ave., Toronto, Ont. 0981. Or best cash offer.

FOR SALE—Meissner Traffic Master and BC 348 Receivers. For details write Ve6KJ, 1011-13th Avenue West, Calgary, Alta.

BRAND NEW TRANSMITTING TUBES—One 803, \$15.00; four 813's, \$7.95 each; four 802's, \$1.00 each; slightly used, two 813's, \$5.00 each; one 803, \$5.00; three 804's, \$3.00 each.—Ve3BBN, P. Posnikoff, 54-5th Street, New Toronto, Ont., phone New Toronto 1825M.

ROTARY BEAM—Heavy duty gear boxes sealed in oil, just the thing for that multi-element beam. Complete with V-pulley, base coupler and cross piece coupler less 2" pipe mounting bolts and motor. We are having some made up. Are you interested? \$35.00 each.—Ve3BBN, P. Posnikoff, 54-5th Street, New Toronto, Ont.

NATIONAL NC240C RECEIVER—25 cycle complete with speaker, also Meissner 14 tube Traffic Master Receiver complete with speaker.—R. Haslett, 87 Divadale Avenue, Toronto, HU. 3529.

COMPLETE POWER SUPPLY—Panel mount, 12x19". Chassis, 17x24". Two High Voltage 3KV. Each supply capable of 500 MA. Plus buffer supply of 500 volts at 200 MA, bias supply of 150 volts at 50 MA and filament supply of 6.3 volts at 4 amps. Tube complement—4-366's, 1-83V, one 5Y4G, and one VR150/30. Reason for sale—NOW IN 25 CYCLE AREA.—Ve8AG/Ve3, P.O. Box 357, Clinton, Ontario.

NATIONAL SW3 RECEIVER—Power supply and 80, 40 & 20 meter coils complete. Perfect shape, \$40.00. Hammond 1466D Relay Rack, \$18.00. Hammond No. 7770 plate transformer 1500 volts at 500 MA. 25 cycles, best offer over \$25.00. Ask for John or Jerry at LOmbard 5365, 150 Dowling Avenue, Toronto.

CAROA LAPEL PINS—NOW READY FOR IMMEDIATE DELIVERY—75c each. IN STERLING SILVER. IDENTIFY YOURSELF AS A MEMBER OF CAROA. While they last. CAROA HQ, 46 St. George St., Toronto 5, Ontario.

SELL—Mullen Exciter, unused, blue-grey panel, 10 meter coils, tubes, and crystal 7121 Kc., \$45.00.—Ve3AQO, 97 Old Forest Hill Road, Toronto 10, Ont., MO. 6900.

HAMFEST—from page 4

nical session was in progress on Saturday afternoon the ladies were taken on a shopping tour by local XYL's, then to a free show at the Capitol Theatre, and to a tea served in the Embassy Room of Merrick's. Prizes were provided for attendees, etc. for the ladies, which added to the interest shown by them throughout the whole Fest.

The Radio trade, the manufacturers, jobbers, and wholesalers, etc. provided numerous very fine prizes, and supported the publication of our Souvenir Program by their Advertising. Without this generous support our Fest would most certainly have been unsuccessful. A Hallcrafters S-40 Receiver was raffled off as the feature of the wind-up at Lakeview.

The Lakeview Picnic wound things up very well. Edmonton took Calgary to the cleaners at Softball, thus placing the post-war score at 1-1!

To Ed. Bryant, VE6LG, N.A.R.C. President goes the thanks of the whole gang, for the efficient, complete, and brilliant manner in which the whole Fest was run off. Ed. worked harder than anyone else in putting us over the top.

To all Alberta hams patronizing our Fest we offer our sincere thanks for their fine support, and we trust they have gone back to their home QTH's well satisfied with our efforts to give them a swell time.

TWO METERS—For a real buy in a converted SCR-522 VHF receiver and transmitter write Ve3ALG, Eric Adams, 5091 Yonge St., Toronto.

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6 "	25000 "	27000 "
11 "	6796.25 "	6863.75 "
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39001 — Flex Isolantite Coupling	.50
39002 — Insulated Coupling	.50
39006 — Slider Type Ins. Coupling	.50

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6AG5 Tube	.40
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